

**Pacifica Companies, Complainant/Petitioner v.  
Duke Energy Carolinas, LLC, Defendant/Respondent  
Docket No. 2020-279-E**

**Duke Energy Carolinas, LLC's Verified Answer and  
Motion to Dismiss  
Attachment 1**

**Interconnection Agreement**

**SOUTH CAROLINA  
GENERATOR INTERCONNECTION AGREEMENT**

**For State-Jurisdictional Interconnections**

Duke Energy Carolinas Inc.

Procedures Effective 04/26/2016

Approved: Docket No. 2015-362-E, Order No. 2016- 191

Between

Duke Energy Carolinas, LLC

And

Pacifica Skylyn LLC

Project Name: Pacifica Skylyn LLC - 1131904369 - Solar

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This Interconnection Agreement ("Agreement") is made and entered into this 29 day of June, 2020, by **Duke Energy Carolinas, LLC** ("Utility"), and **PACIFICA SKYLYN LLC** ("Interconnection Customer") each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties."

#### **Utility Information**

Utility: Duke Energy Carolinas, LLC

Attention: Wholesale Renewable Manager – Mail code ST-14Q

Address: 400 S. Tryon Street

City: Charlotte State: NC Zip: 28202

Phone: 704-382-1268 Fax: 980-373-3238

Email: DERContracts@duke-energy.com

#### **Interconnection Customer Information**

Name: PACIFICA SKYLYN LLC

Attention: Divya Sappa

Address: 1705 Skylyn Drive

City: Spartanburg State: SC Zip: 29307

Phone: 619-296-9000X143 Fax: N/A

Email Address: Dsappa@pacificacompanies.com

Interconnection Request ID No: (SC2018-01289)

In consideration of the mutual covenants set forth herein, the Parties agree as follows:

**Article 1. Scope and Limitations of Agreement**

**1.1 Applicability**

This Agreement shall be used for all Interconnection Requests submitted under the South Carolina Generator Interconnection Procedures except for those submitted under the 20 kW Inverter Process in Section 2 of the Standard.

**1.2 Purpose**

This Agreement governs the terms and conditions under which the Interconnection Customer's Generating Facility will interconnect with, and operate in parallel with, the Utility's System.

**1.3 No Agreement to Purchase or Deliver Power or RECs**

This Agreement does not constitute an agreement to purchase or deliver the Interconnection Customer's power or Renewable Energy Certificates (RECs). The purchase or delivery of power, RECs that might result from the operation of the Generating Facility, and other services that the Interconnection Customer may require will be covered under separate agreements, if any. The Interconnection Customer will be responsible for separately making all necessary arrangements (including scheduling) for delivery of electricity with the applicable Utility.

**1.4 Limitations**

Nothing in this Agreement is intended to affect any other agreement between the Utility and the Interconnection Customer.

**1.5 Responsibilities of the Parties**

1.5.1 The Parties shall perform all obligations of this Agreement in accordance with all Applicable Laws and Regulations, Operating Requirements, and Good Utility Practice.

1.5.2 The Interconnection Customer shall construct, interconnect, operate and maintain its Generating Facility and construct, operate, and maintain its Interconnection Facilities in accordance with the applicable manufacturer's recommended maintenance schedule, and in accordance with this Agreement, and with Good Utility Practice.

1.5.3 The Utility shall construct, operate, and maintain its System and Interconnection Facilities in accordance with this Agreement, and with Good Utility Practice.

- 1.5.4 The Interconnection Customer agrees to construct its facilities or systems in accordance with applicable specifications that meet or exceed those provided by the National Electrical Safety Code, National Electrical Code, the American National Standards Institute, IEEE, Underwriters' Laboratories, and Operating Requirements in effect at the time of construction and other applicable national and state codes and standards. The Interconnection Customer agrees to design, install, maintain, and operate its Generating Facility so as to reasonably minimize the likelihood of a disturbance adversely affecting or impairing the System or equipment of the Utility and any Affected Systems.
- 1.5.5 Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the Appendices to this Agreement. Each Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the point of change of ownership. The Utility and the Interconnection Customer, as appropriate, shall provide Interconnection Facilities that adequately protect the Utility's System, personnel, and other persons from damage and injury. The allocation of responsibility for the design, installation, operation, maintenance and ownership of Interconnection Facilities shall be delineated in the Appendices to this Agreement.
- 1.5.6 The Utility shall coordinate with all Affected Systems to support the interconnection.
- 1.5.7 The Interconnection Customer is responsible for reviewing the NERC registration requirements, registering when applicable and complying with the applicable Electric Reliability Organization (ERO) reliability standards.

#### 1.6 Disconnect Switch Required

The interconnection Customer shall install a manual load-break disconnect switch or safety switch as a clear visible indication of switch position between the Utility System and the Interconnection Customer. The switch must have padlock provisions for locking in the open position. The switch must be visible to, and accessible to Utility personnel. The switch must be in visible sight of where the Utilities' interconnection facilities meet the Interconnection Customer's facilities. The switch must be labeled "Generator Disconnect Switch." The switch may isolate the Interconnection Customer and its associated load from the Utility's System or disconnect only the Generator from the Utility's System and shall be accessible to the Utility at all times. The Utility, in its sole discretion, determines if the switch is suitable.



### 1.7 Parallel Operation Obligations

Once the Generating Facility has been authorized to commence parallel operation, the Interconnection Customer shall abide by all rules and procedures pertaining to the parallel operation of the Generating Facility in the applicable control area, including, but not limited to: 1) any rules and procedures concerning the operation of generation set forth in Commission-approved tariffs or by the applicable system operator(s) for the Utility's System and; 2) the Operating Requirements set forth in Appendix 5 of this Agreement.

### 1.8 Metering

The Interconnection Customer shall be responsible for the Utility's reasonable and necessary cost for the purchase, installation, operation, maintenance, testing, repair, and replacement of metering and data acquisition equipment specified in Appendices 2 and 3 of this Agreement. The Interconnection Customer's metering (and data acquisition, as required) equipment shall conform to applicable industry rules and Operating Requirements.

### 1.9 Reactive Power

1.9.1 The Interconnection Customer shall design its Generating Facility to maintain a composite power delivery at continuous rated power output at the Point of Interconnection at a power factor within the range of 0.95 leading to 0.95 lagging, unless the Utility has established different requirements that apply to all similarly situated generators in the control area on a comparable basis. The requirements of this paragraph shall not apply to wind generators.

1.9.2 The Utility is required to pay the Interconnection Customer for reactive power that the Interconnection Customer provides or absorbs from the Generating Facility when the Utility requests the Interconnection Customer to operate its Generating Facility outside the range specified in Article 1.8.1 or the range established by the Utility that applies to all similarly situated generators in the control area. In addition, if the Utility pays its own or affiliated generators for reactive power service within the specified range, it must also pay the Interconnection Customer.

1.9.3 Payments shall be in accordance with the Utility's applicable rate schedule then in effect unless the provision of such service(s) is subject to a regional transmission organization or independent system operator FERC-approved rate schedule. To the extent that no rate schedule is in effect at the time the Interconnection Customer is required to provide or absorb reactive power under this Agreement, the Parties agree to expeditiously file such rate schedule and agree to support any request for waiver of any prior notice requirement in order to compensate the Interconnection Customer from the time service commenced.



#### 1.10 Capitalized Terms

Capitalized terms used herein shall have the meanings specified in the Glossary of Terms in Attachment 1 of the South Carolina Generator Interconnection Procedures or the body of this Agreement.

### Article 2. **Inspection, Testing, Authorization, and Right of Access**

#### 2.1 Equipment Testing and Inspection

2.1.1 The Interconnection Customer shall test and inspect its Generating Facility and Interconnection Facilities prior to interconnection. The Interconnection Customer shall notify the Utility of such activities no fewer than ten (10) Business Days (or as may be agreed to by the Parties) prior to such testing and inspection. Testing and inspection shall occur on a Business Day, unless otherwise agreed to by the Parties. The Utility may, at the Interconnection Customer's expense, send qualified personnel to the Generating Facility site to inspect the interconnection and observe the testing. The Interconnection Customer shall provide the Utility a written test report when such testing and inspection is completed.

2.1.2 The Utility shall provide the Interconnection Customer written acknowledgment that it has received the Interconnection Customer's written test report. Such written acknowledgment shall not be deemed to be or construed as any representation, assurance, guarantee, or warranty by the Utility of the safety, durability, suitability, or reliability of the Generating Facility or any associated control, protective, and safety devices owned or controlled by the Interconnection Customer or the quality of power produced by the Generating Facility. If determined necessary by the Utility for safe and reliable operation of the Interconnection Facilities and/or Generating Facility, the Utility may also initiate its own inspection and testing activities at the Interconnection Customer's expense prior to authorizing parallel operation of the Generating Facility.

#### 2.2 Authorization Required Prior to Parallel Operation

2.2.1 The Utility shall use Reasonable Efforts to list applicable parallel operation requirements in Appendix 5 of this Agreement. Additionally, the Utility shall notify the Interconnection Customer of any changes to these requirements as soon as they are known. The Utility shall make Reasonable Efforts to cooperate with the Interconnection Customer in meeting requirements necessary for the Interconnection Customer to commence parallel operations by the in-service date.

2.2.2 The Interconnection Customer shall not operate its Generating Facility in parallel with the Utility's System without prior written authorization of the Utility. The Utility will provide such authorization once the Utility

receives notification that the Interconnection Customer has complied with all applicable parallel operation requirements, including but not limited to additional Operating Requirements presented in Appendix 5 of this Agreement. Such authorization shall not be unreasonably withheld, conditioned, or delayed.

## 2.3 Right of Access

2.3.1 Upon reasonable notice, the Utility may send a qualified person to the premises of the Interconnection Customer at or immediately before the time the Generating Facility first produces energy to inspect the interconnection, and observe the commissioning of the Generating Facility (including any required testing), startup, and operation for a period of up to three (3) Business Days after initial start-up of the unit. In addition, the Interconnection Customer shall notify the Utility at least five (5) Business Days prior to conducting any on-site verification testing of the Generating Facility.

2.3.2 Following the initial inspection process described above, at reasonable hours, and upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, the Utility shall have access to the Interconnection Customer's premises for any reasonable purpose in connection with the performance of the obligations imposed on it by this Agreement or if necessary to meet its legal obligation to provide service to its customers.

2.3.3 Each Party shall be responsible for its own costs associated with following this Article.

## Article 3. **Effective Date, Term, Termination, and Disconnection**

### 3.1 Effective Date

This Agreement shall become effective upon execution by the Parties.

### 3.2 Term of Agreement

This Agreement shall become effective on the Effective Date and shall remain in effect for a period of ten (10) years from the Effective Date or such other longer period as the Interconnection Customer may request and shall be automatically renewed for each successive one-year period thereafter, unless terminated earlier in accordance with Article 3.3 of this Agreement.

### 3.3 Termination

No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

- 3.3.1 The Interconnection Customer may terminate this Agreement at any time by giving the Utility 20 Business Days written notice and physically and permanently disconnecting the Generating Facility from the Utility's System.
- 3.3.2 The Utility may terminate this Agreement for failure to comply with the requirements of Article 7.1.2 or Article 7.1.3.
- 3.3.3 Either Party may terminate this Agreement after Default pursuant to Article 7.6.
- 3.3.4 Upon termination of this Agreement, the Generating Facility will be disconnected from the Utility's System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this Agreement or such non-terminating Party otherwise is responsible for these costs under this Agreement.
- 3.3.5 The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of the termination, including any remaining term requirements for payment of Charges that are billed under a monthly payment option as prescribed in Article 6.
- 3.3.6 The provisions of this article shall survive termination or expiration of this Agreement.

#### 3.4 Temporary Disconnection

Temporary disconnection shall continue only for so long as reasonably necessary under Good Utility Practice.

##### 3.4.1 Isolating or Disconnecting the Generating Facility

The Utility may isolate the Interconnection Customer's premises and/or Generating Facility from the Utility's System when necessary in order to construct, install, repair, replace, remove, investigate or inspect any of the Utility's equipment or part of Utility's System; or if the Utility determines that isolation of the Interconnection Customer's premises and/or Generating Facility from the Utility's System is necessary because of emergencies, forced outages, force majeure or compliance with prudent electrical practices. Whenever feasible, the Utility shall give the Interconnection Customer reasonable notice of the isolation of the Interconnection Customer's premises and/or Generating Facility from the Utility's System.

Notwithstanding any other provision of this Agreement, if at any time the Utility determines that the continued operation of the Generating Facility may endanger either (1) the Utility's personnel or other persons

or property or (2) the integrity or safety of the Utility's System, or otherwise cause unacceptable power quality problems for other electric consumers, the Utility shall have the right to isolate the Interconnection Customer's premises and/or Generating Facility from the Utility's System.

#### 3.4.2 Emergency Conditions

Under Emergency Conditions, the Utility may immediately suspend interconnection service and temporarily disconnect the Generating Facility. The Utility shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the Generating Facility. The Interconnection Customer shall notify the Utility promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Utility's System or any Affected Systems. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of both Parties' facilities and operations, its anticipated duration, and the necessary corrective action.

#### 3.4.3 Routine Maintenance, Construction, and Repair

The Utility may interrupt interconnection service or curtail the output of the Generating Facility and temporarily disconnect the Generating Facility from the Utility's System when necessary for routine maintenance, construction, and repairs on the Utility's System. The Utility shall make best efforts to provide the Interconnection Customer reasonable notice prior to such interruption. The Utility shall use Reasonable Efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.

#### 3.4.4 Forced Outages

During any forced outage, the Utility may suspend interconnection service to effect immediate repairs on the Utility's System. The Utility shall use Reasonable Efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, the Utility shall, upon request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.

#### 3.4.5 Adverse Operating Effects

The Utility shall notify the Interconnection Customer as soon as practicable if, based on Good Utility Practice, operation of the Generating Facility may cause disruption or deterioration of service to other customers served from the same electric system, or if operating the Generating Facility could cause damage to the Utility's System or



Affected Systems. Supporting documentation used to reach the decision to disconnect shall be provided to the Interconnection Customer upon request. If, after notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time, the Utility may disconnect the Generating Facility. The Utility shall make best efforts to provide the Interconnection Customer reasonable notice of such disconnection, unless the provisions of Article 3.4.1 apply.

#### 3.4.6 Failure to Maintain Compliance with Operating Requirements

The Utility may disconnect from the Utility's System any Generating Facility determined to be malfunctioning, or not in compliance with this Standard or Operating Requirements. The Interconnection Customer must provide proof of compliance with this Agreement or Operating Requirements before the Generating Facility will be reconnected.

#### 3.4.7 Modification of the Generating Facility

The Interconnection Customer must receive written authorization from the Utility before making any Material Modification or any other change to the Generating Facility that may have a material impact on the safety or reliability of the Utility's System. Such authorization shall not be unreasonably withheld. Modifications shall be done in accordance with Good Utility Practice. If the Interconnection Customer makes such modification without the Utility's prior written authorization, the latter shall have the right to temporarily disconnect the Generating Facility.

#### 3.4.8 Reconnection

The Parties shall cooperate with each other to restore the Generating Facility, Interconnection Facilities, and the Utility's System to their normal operating state as soon as reasonably practicable following a temporary or emergency disconnection.

### Article 4. **Cost Responsibility for Interconnection Facilities and Distribution Upgrades**

#### 4.1 Interconnection Facilities

- 4.1.1 The Interconnection Customer shall pay for the cost of the Interconnection Facilities itemized in Appendix 2 of this Agreement. The Utility shall provide a best estimate cost, including overheads, for the purchase and construction of its Interconnection Facilities and provide a detailed itemization of such costs. Costs associated with Interconnection Facilities may be shared with other entities that may benefit from such facilities by agreement of the Interconnection Customer, such other entities, and the Utility.

- 4.1.2 The Interconnection Customer shall be responsible for its share of all reasonable expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its own Interconnection Facilities, and (2) operating, maintaining, repairing, and replacing the Utility's Interconnection Facilities.

#### 4.2 Distribution Upgrades

The Utility shall design, procure, construct, install, and own the Distribution Upgrades described in Appendix 6 of this Agreement. The actual cost of the Distribution Upgrades, including overheads, on-going operations, maintenance, repair, and replacement, shall be directly assigned to the Interconnection Customer.

### Article 5. **Cost Responsibility for Network Upgrades**

#### 5.1 Applicability

No portion of this Article 5 shall apply unless the interconnection of the Generating Facility requires Network Upgrades.

#### 5.2 Network Upgrades

The Utility shall design, procure, construct, install, and own the Network Upgrades described in Appendix 6 of this Agreement. The cost of the Network Upgrades, including overheads, on-going operations, maintenance, repair, and replacement shall be borne by the Interconnection Customer.

### Article 6. **Billing, Payment, Milestones, and Financial Security**

#### 6.1 Billing and Payment Procedures and Final Accounting

The Interconnection Customer shall pay 100% of required Interconnection Facilities, and any other charges as required in Appendix 2 pursuant to the milestones specified in Appendix 4. The Interconnection Customer shall pay 100% of required Upgrades and any other charges as required in Appendix 6 pursuant to the milestones specified in Appendix 4. Upon receipt of 100% of the foregoing pre-payment charges, the payment is not refundable due to cancellation of the Interconnection Request for any reason.

- 6.1.1 If implemented by the Utility or requested by the Interconnection Customer in writing within 15 Business Days of the Utility completing the construction and installation of the Utility's Interconnection Facilities and/or Upgrades described in the Appendices to this Agreement, the Utility shall provide the Interconnection Customer a final accounting report within 60 Business Days addressing any difference between (1) the Interconnection Customer's cost responsibility for the actual cost of such facilities or Upgrades, and (2) the Interconnection Customer's previous aggregate payments to



the Utility for such facilities or Upgrades. If the Interconnection Customer's cost responsibility exceeds its previous aggregate payments, the Utility shall invoice the Interconnection Customer for the amount due and the Interconnection Customer shall make payment to the Utility within 20 Business Days. If the Interconnection Customer's previous aggregate payments exceed its cost responsibility under this Agreement, the Utility shall refund to the Interconnection Customer an amount equal to the difference within 20 Business Days of the final accounting report. If necessary and appropriate as a result of the final accounting, the Utility may also adjust the monthly charges set forth in Appendix 2 of the Interconnection Agreement.

- 6.1.2 The Utility shall bill the Interconnection Customer for the costs associated with operating, maintaining, repairing and replacing the Utility's System Upgrades, as set forth in Appendix 6 of this Agreement. The Utility shall bill the Interconnection Customer for the costs of commissioning and inspection of the Interconnection Customer's Interconnection Facilities and for providing the Utility's Interconnection Facilities including the costs for on-going operations, maintenance, repair and replacement of the Utility's Interconnection Facilities under a Utility rate schedule, tariff, rider or service regulation providing for extra facilities or additional facilities charges, as set forth in Appendix 2 of this Agreement, such monthly charges to continue throughout the entire life of the interconnection.

## 6.2 Milestones

The Parties shall agree on milestones for which each Party is responsible and list them in Appendix 4 of this Agreement. A Party's obligations under this provision may be extended by agreement, except for timing for Payment or Financial Security-related requirements set forth in the milestones, which shall adhere to Section 5.2.4 of the Standards. If a Party anticipates that it will be unable to meet a milestone for any reason other than a Force Majeure Event, it shall immediately notify the other Party of the reason(s) for not meeting the milestone and (1) propose the earliest reasonable alternate date by which it can attain this and future milestones, and (2) request appropriate amendments to Appendix 4. The Party affected by the failure to meet a milestone shall not unreasonably withhold agreement to such an amendment unless (1) it will suffer significant uncompensated economic or operational harm from the delay, (2) the delay will materially affect the schedule of another Interconnection Customer with subordinate Queue Position, (3) attainment of the same milestone has previously been delayed, or (4) it has reason to believe that the delay in meeting the milestone is intentional or unwarranted notwithstanding the circumstances explained by the Party proposing the amendment.

### 6.3 Financial Security Arrangements

Pursuant to the Interconnection Agreement Milestones Appendix 4, the Interconnection Customer shall provide the Utility a letter of credit or other financial security arrangement that is reasonably acceptable to the Utility and is consistent with the Uniform Commercial Code of South Carolina. Such security for payment shall be in an amount sufficient to cover the costs for constructing, designing, procuring, and installing the applicable portion of the Utility's Interconnection Facilities and Upgrades and shall be reduced on a dollar-for-dollar basis for payments made to the Utility under this Agreement during its term. In addition:

- 6.3.1 The guarantee must be made by an entity that meets the creditworthiness requirements of the Utility, and contain terms and conditions that guarantee payment of any amount that may be due from the Interconnection Customer, up to an agreed-to maximum amount.
- 6.3.2 The letter of credit must be issued by a financial institution or insurer reasonably acceptable to the Utility and must specify a reasonable expiration date.
- 6.3.3 The Utility may waive the security requirements if its credit policies show that the financial risks involved are de minimus, or if the Utility's policies allow the acceptance of an alternative showing of creditworthiness from the Interconnection Customer.

## Article 7. **Assignment, Liability, Indemnity, Force Majeure, Consequential Damages, and Default**

### 7.1 Assignment

- 7.1.1 The Interconnection Customer shall notify the Utility of the pending sale of an existing Generation Facility in writing. The Interconnection Customer shall provide the Utility with information regarding whether the sale is a change of ownership of the Generation Facility to a new legal entity, or a change of control of the existing legal entity.
- 7.1.2 The Interconnection Customer shall promptly notify the Utility of the final date of sale and transfer date of ownership in writing. The purchaser of the Generation Facility shall confirm to the Utility the final date of sale and transfer date of ownership in writing
- 7.1.3 This Agreement shall not survive the transfer of ownership of the Generating Facility to a new legal entity owner. The new owner must complete a new Interconnection Request and submit it to the Utility within 20 Business Days of the transfer of ownership or the Utility's Interconnection Facilities shall be removed or disabled and the Generating Facility disconnected from the Utility's System. The Utility shall not study or inspect the Generating Facility unless the new

owner's Interconnection Request indicates that a Material Modification has occurred or is proposed.

- 7.1.4 This Agreement shall survive a change of control of the Generating Facility' legal entity owner, where only the contact information in the Interconnection Agreement must be modified. The new owner must complete a new Interconnection Request and submit it to the Utility within 20 Business Days of the change of control and provide the new contact information. The Utility shall not study or inspect the Generating Facility unless the new owner's Interconnection Request indicates that a Material Modification has occurred or is proposed.
- 7.1.5 The Interconnection Customer shall have the right to assign this Agreement, without the consent of the Utility, for collateral security purposes to aid in providing financing for the Generating Facility, provided that the Interconnection Customer will promptly notify the Utility of any such assignment. Assignment shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof.
- 7.1.6 Any attempted assignment that violates this article is void and ineffective.

## 7.2 Limitation of Liability

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, incidental, consequential, or punitive damages of any kind, except as authorized by this Agreement.

## 7.3 Indemnity

- 7.3.1 This provision protects each Party from liability incurred to third parties as a result of carrying out the provisions of this Agreement. Liability under this provision is exempt from the general limitations on liability found in Article 7.2.
- 7.3.2 The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inaction of its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

- 7.3.3 If an indemnified Party is entitled to indemnification under this Article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such claim, such indemnified Party may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.
- 7.3.4 If an indemnifying Party is obligated to indemnify and hold any indemnified Party harmless under this Article, the amount owing to the indemnified Party shall be the amount of such indemnified Party's actual loss, net of any insurance or other recovery.
- 7.3.5 Promptly after receipt by an indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may apply, the indemnified Party shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

#### 7.4 Consequential Damages

Other than as expressly provided for in this Agreement, neither Party shall be liable under any provision of this Agreement for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

#### 7.5 Force Majeure

- 7.5.1 As used in this article, a Force Majeure Event shall mean any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure Event does not include an act of negligence or intentional wrongdoing.
- 7.5.2 If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the Force Majeure Event (Affected Party) shall promptly notify the other Party, either in writing or via the telephone, of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the



Affected Party is taking to mitigate the effects of the event on its performance. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends. The Affected Party will be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of Reasonable Efforts. The Affected Party will use Reasonable Efforts to resume its performance as soon as possible.

## 7.6 Default

- 7.6.1 No Default shall exist where such failure to discharge an obligation (other than the payment of money or provision of Financial Security) is the result of a Force Majeure Event as defined in this Agreement or the result of an act or omission of the other Party. Upon a Default, the non-defaulting Party shall give written notice of such Default to the defaulting Party. Except as provided in Article 7.6.2, the defaulting Party shall have five (5) Business Days from receipt of the Default notice within which to cure such Default.
- 7.6.2 If a Default is not cured as provided in this Article, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this article will survive termination of this Agreement.

## Article 8. **Insurance**

- 8.1 The Interconnection Customer shall obtain and retain, for as long as the Generating Facility is interconnected with the Utility's System, liability insurance which protects the Interconnection Customer from claims for bodily injury and/or property damage. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generating equipment being interconnected, the interconnection itself, and the characteristics of the system to which the interconnection is made. This insurance shall be primary for all purposes. The Interconnection Customer shall provide certificates evidencing this coverage as required by the Utility. Such insurance shall be obtained from an insurance provider authorized to do business in South Carolina. The Utility reserves the right to refuse to establish or continue the interconnection of the Generating Facility with the Utility's System, if such insurance is not in effect.
- 8.1.1 For an Interconnection Customer that is a residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be a standard homeowner's

insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.

- 8.1.2 For an Interconnection Customer that is a non-residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$300,000 per occurrence.
- 8.1.3 For an Interconnection Customer that is a non-residential customer of the Utility proposing to interconnect a Generating Facility greater than 250 kW, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$1,000,000 per occurrence.
- 8.1.4 An Interconnection Customer of sufficient credit-worthiness may propose to provide this insurance via a self-insurance program if it has a self-insurance program established in accordance with commercially acceptable risk management practices, and such a proposal shall not be unreasonably rejected.
- 8.2 The Utility agrees to maintain general liability insurance or self-insurance consistent with the Utility's commercial practice. Such insurance or self-insurance shall not exclude coverage for the Utility's liabilities undertaken pursuant to this Agreement.
- 8.3 The Parties further agree to notify each other whenever an accident or incident occurs resulting in any injuries or damages that are included within the scope of coverage of such insurance, whether or not such coverage is sought.

#### Article 9. **Confidentiality**

- 9.1 Confidential Information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential." For purposes of this Agreement all design, operating specifications, and metering data provided by the Interconnection Customer shall be deemed Confidential Information regardless of whether it is clearly marked or otherwise designated as such.
- 9.2 Confidential Information does not include information previously in the public domain, required to be publicly submitted or divulged by Governmental Authorities (after notice to the other Party and after exhausting any opportunity to oppose such publication or release), or necessary to be divulged in an action to enforce this Agreement. Each Party receiving Confidential Information shall hold such information in confidence and shall not disclose it to any third party nor to the public without the prior written authorization from the Party providing that information, except to fulfill obligations under this Agreement, or to fulfill legal or regulatory requirements.



9.1.1 Each Party shall employ at least the same standard of care to protect Confidential Information obtained from the other Party as it employs to protect its own Confidential Information.

9.1.2 Each Party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of Confidential Information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.

9.1.3 All information pertaining to a project will be provided to the new owner in the case of a change of control of the existing legal entity or a change of ownership to a new legal entity.

9.3 If information is requested by the Commission from one of the Parties that is otherwise required to be maintained in confidence pursuant to this Agreement, the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party may request that the information be treated as confidential and non-public in accordance with South Carolina law and that the information be withheld from public disclosure.

#### Article 10. **Disputes**

10.1 The Parties agree to attempt to resolve all disputes arising out of the interconnection process according to the provisions of this Article.

10.2 In the event of a dispute, either Party shall provide the other Party with a written notice of dispute. Such notice shall describe in detail the nature of the dispute.

10.3 If the dispute has not been resolved within 20 Business Days after receipt of the notice, either Party may contact the Office of Regulatory Staff for assistance in informally resolving the dispute. If the Parties are unable to informally resolve the dispute, either Party may then file a formal complaint with the Commission.

10.4 Each Party agrees to conduct all negotiations in good faith.

#### Article 11. **Taxes**

11.1 The Parties agree to follow all applicable tax laws and regulations, consistent with South Carolina and federal policy and revenue requirements.

11.2 Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this Agreement is intended to adversely affect the Utility's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

Article 12. **Miscellaneous**

12.1 Governing Law, Regulatory Authority, and Rules

The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of South Carolina, without regard to its conflicts of law principles. This Agreement is subject to all Applicable Laws and Regulations. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, or regulations of a Governmental Authority.

12.2 Amendment

The Parties may amend this Agreement by a written instrument duly executed by both Parties, or under Article 12.12 of this Agreement.

12.3 No Third-Party Beneficiaries

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

12.4 Waiver

12.4.1 The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

12.4.2 Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from the Utility. Any waiver of this Agreement shall, if requested, be provided in writing.

12.5 Entire Agreement

This Agreement, including all Appendices, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this Agreement.

#### 12.6 Multiple Counterparts

This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

#### 12.7 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

#### 12.8 Severability

If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other Governmental Authority, (1) such portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling, and (3) the remainder of this Agreement shall remain in full force and effect.

#### 12.9 Security Arrangements

Infrastructure security of electric system equipment and operations and control hardware and software is essential to ensure day-to-day reliability and operational security. All Utilities are expected to meet basic standards for electric system infrastructure and operational security, including physical, operational, and cyber-security practices.

#### 12.10 Environmental Releases

Each Party shall notify the other Party, first orally and then in writing, of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than 24 hours after such Party becomes aware of the occurrence, and (2) promptly furnish to the other Party copies of any publicly available reports filed with any Governmental Authorities addressing such events.

#### 12.11 Subcontractors

Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under

this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

12.11.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall the Utility be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under this Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

12.11.2 The obligations under this article will not be limited in any way by any limitation of subcontractor's insurance.

#### 12.12 Reservation of Rights

The Utility shall have the right to make a unilateral filing with the Commission to modify this Agreement with respect to any rates, terms and conditions, charges, or classifications of service, and the Interconnection Customer shall have the right to make a unilateral filing with the Commission to modify this Agreement; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before the Commission in which such modifications may be considered. Nothing in this Agreement shall limit the rights of the Parties except to the extent that the Parties otherwise agree as provided herein.

### Article 13. **Notices**

#### 13.1 General

Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement (Notice) shall be deemed properly given if delivered in person, delivered by recognized national courier service, sent by first class mail, postage prepaid, or sent electronically to the person specified below:

If to the Interconnection Customer:

Interconnection Customer: PACIFICA SKYLYN LLC

Attention: Divya Sappa

Address: 1705 Skylyn Drive



City: Spartanburg State: SC Zip: 29307

E-Mail Address: [Dsappa@pacificacompanies.com](mailto:Dsappa@pacificacompanies.com)

Phone: 619-296-9000X143 Fax: N/A

If to the Utility:

Utility: Duke Energy Carolinas, LLC

Attention: Wholesale Renewable Manager – Mail Code ST14Q

Address: 400 S. Tryon Street

City: Charlotte State: NC Zip: 28202

E-Mail Address: [DERContracts@duke-energy.com](mailto:DERContracts@duke-energy.com)

Phone: 704-382-1268 Fax: 980-373-3238

### 13.2 Billing and Payment

Billings and payments shall be sent to the addresses set out below: If to the Interconnection Customer:

Interconnection Customer: PACIFICA SKYLYN LLC

Attention: Divya Sappa

Address: 1705 Skylyn Drive

City: Spartanburg State: SC Zip: 29307

Phone: 619-296-9000X143 Fax: N/A

E-Mail Address: [Dsappa@pacificacompanies.com](mailto:Dsappa@pacificacompanies.com)

If to the Utility:

Please refer to invoice for payment remittance instructions

### 13.3 Alternative Forms of Notice

Any notice or request required or permitted to be given by either Party to the other and not required by this Agreement to be given in writing may be so given

by telephone, facsimile or e-mail to the telephone numbers and e-mail addresses set out below:

If to the Interconnection Customer:

Interconnection Customer: PACIFICA SKYLYN LLC

Attention: Oliver Klicker

Address: 625 NW 8<sup>th</sup> Ave

City: Gainesville State: Florida Zip: 32601

Phone: 866-828-3337 Fax: N/A

E-Mail Address: oliver@sunppm.com

If to the Utility:

Utility: Duke Energy Carolinas, LLC

Attention: Wholesale Renewable Manager- Mail Code ST-14Q

Address: 400 S. Tryon Street

City: Charlotte State: NC Zip: 28202

Phone: 704-382-1268 Fax: 980-373-3238

E-Mail Address: DERContracts@duke-energy.com

#### 13.4 Designated Operating Representative

The Parties may also designate operating representatives to conduct the communications which may be necessary or convenient for the administration of this Agreement. This person will also serve as the point of contact with respect to operations and maintenance of the Party's facilities.

Interconnection Customer's Operating Representative:

Interconnection Customer: PACIFICA SKYLYN LLC

Attention: Divya Sappa

Address: 1705 Skylyn Drive

City: Spartanburg State: SC Zip: 29307

Phone: 619-296-9000X143 Fax: N/A



E-Mail Address: Dsappa@pacificacompanies.com

Utility's Operating Representative:

Utility: Duke Energy Carolinas, LLC

Attention: Wholesale Renewable Manager- Mail Code ST-14Q

Address: 400 S. Tryon Street

City: Charlotte      State: NC      Zip: 28202

Phone: 704-382-1268      Fax: 980- 343-3238

E-Mail Address: DERContracts@duke-energy.com

13.5 Changes to the Notice Information

Either Party may change this information by giving five Business Days written notice prior to the effective date of the change.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives.

**For Duke Energy Carolinas, LLC**

Name: Jeffrey W. Riggins  
Jeffrey W. Riggins (Jun 29, 2020 11:56 EDT)

Print Name: Jeffrey W. Riggins

Title: Director, DET Interconnections

Date: 06/29/2020

**For PACIFICA SKYLYN LLC**

Name: Divya Sappa  
Divya Sappa (Jun 17, 2020 13:20 EDT)

Print Name: Divya Sappa

Title: Director, Investments and Strategic Operations

Date: 06/17/2020

### **Glossary of Terms**

See Glossary of Terms, Attachment 1 to the South Carolina Generator Interconnection Procedures.

### **Description and Costs of the Generating Facility, Interconnection Facilities, and Metering Equipment**

Equipment, including the Generating Facility, Interconnection Facilities, and metering equipment shall be itemized and identified as being owned by the Interconnection Customer, or the Utility. The Utility will provide a best estimate itemized cost, including overheads, of its Interconnection Facilities and metering equipment, and a best estimate itemized cost of the annual operation and maintenance expenses associated with its Interconnection Facilities and metering equipment.

PACIFICA SKYLYN LLC is installing a solar photovoltaic **net metering** Generating Facility located at 1705 Skylyn Drive, Spartanburg, SC, 29307, in Spartanburg County.

The project is or will be a Qualifying Facility as defined by the Federal Energy Regulatory Commission ("FERC") pursuant to Section 210 of the Public Utility Regulatory Policies Act of 1978.

The project will consist of Three (3) SMA CORE1 STP 50-US-41W, Two (2) SMA CORE1 STP 33-US-41W PV grid-tie inverters and associated Seven Hundred Fourteen(714) SUNPOWER E19/320W DC photovoltaic modules.

The Maximum Physical Export Capability of the Generating Facility is 216.6 KW<sub>AC</sub>.

Pacifica Skylyn LLC will connect the Facility to the Main Service Panel associated with electric service account [REDACTED] connecting behind a 1000 kVA Underground Transformer currently served by the Company at approximately 277/480 volts, three (3) phase, alternating, at a frequency of approximately sixty (60) hertz.

### **INTERCONNECTON FACILITIES**

The Utility will furnish, install, own and maintain Interconnection Facilities to permit parallel operation of the Customer's Generating Facility with the Utility's Distribution System.

The Generating Facility's output will be net metered at the Utility's electric service meter location by replacing the existing billing meter with a bi-directional meter provided by the Utility.

PACIFICA SKYLYN LLC will install generator metering facilities to record the output of the Generating System. The generator meter will be located between the Utility electric service meter and the generator disconnect and will be installed adjacent to the Utility electric service meter. The Interconnection Facilities include a bi-directional meter (generator meter) provided by the Utility.

PACIFICA SKYLYN LLC will install a generator disconnect (load-break rated, lockable open) between the generator meter and the Generating Facility. The generator disconnect will be located adjacent to the generator meter.

The Interconnection Facilities Delivery Date under this Agreement is \_\_\_\_\_, 20\_\_\_\_, said date being the date upon which the Utility's Interconnection Facilities are capable of being energized for the purposes of receiving power from the Interconnection Customer.

**One-line Diagram Depicting the Generating Facility,  
Interconnection Facilities, Metering Equipment, and Upgrades**

This agreement will incorporate by reference the one-line diagram submitted by the Customer on May 5, 2020 with file name "North Tower-Page 11 OLD" as part of the Interconnection Request, or as subsequently updated and approved by the Utility.



**Milestones**Requested Upgrade In-Service Date: Not ApplicableRequested Interconnection Facilities In-Service Date TBD per the Milestones below.

Critical milestones and responsibility as agreed to by the Parties:

The build-out schedule does not include contingencies for deployment of Utility personnel to assist in outage restoration efforts on the Utility's system or the systems of other utilities with whom the Utility has a mutual assistance agreement. Consequently, the Requested In-Service Date may be delayed to the extent outage restoration work interrupts the design, procurement and construction of the requested facilities.

	Milestone	Completion Date	Responsible Party
1)	Pass Final Electrical Inspection, Must be submitted by Authority Having Jurisdiction to Duke Energy	TBD by Customer	Interconnection Customer
2)	Utility Field Engineer Inspection	Within 15 Business Days of Item (1)	Utility
3)	Meter Set	Within 15 Business Days of Item (2)	Utility

Agreed to by:

For the Utility, Duke Energy Carolinas, LLC

 Name: Jeffrey W. Riggins  
Jeffrey W. Riggins (Jun 29, 2020 11:56 EDT)
Date 06/29/2020Print Name: Jeffrey W. Riggins

For the Interconnection Customer, PACIFICA SKYLYN LLC

 Name: Divya Sappa  
Divya Sappa (Jun 17, 2020 13:20 PDT)
Date 06/17/2020Print Name: Divya Sappa

**Additional Operating Requirements for the Utility's  
System and Affected Systems Needed to Support  
the Interconnection Customer's Needs**

The Utility shall also provide requirements that must be met by the Interconnection Customer prior to initiating parallel operation with the Utility's System. The Interconnection Customer shall maintain compliance with all applicable Operating Requirements during parallel operation with the Utility's System.

**Obligations of the Utility**

The obligations of the Utility in regard to service under this Interconnection Agreement are dependent upon its acquiring and retaining all necessary rights-of-way, privileges, franchises, and permits for such service and the Utility shall not be liable to any Customer or applicant for power in the event it is delayed in, or is prevented from purchasing or delivering power by the failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

Utility is not obligated to install Interconnection Facilities or System Upgrades to receive electricity from Customer unless and until: (1) in cases where it is necessary to cross property to accept delivery of electricity from Customer, Customer conveys or causes to be conveyed to Utility, without cost to Utility, a right-of-way or easement, satisfactory to Utility across such property which will provide for the construction, maintenance, and operation of Utility's lines and facilities, necessary to receive electricity from Customer, and (2) any inspection certificates or permits that may be required by law in the local are furnished to Utility.

**Procurement**

The initial delivery of electric power is dependent upon the Utility securing from the manufacturers all necessary apparatus, equipment and material for the delivery of said power, and the Utility shall not be required to receive said power until it shall have secured and installed such equipment, apparatus and material.

**Applicable Rate Schedule**

Service necessary for the delivery of the Customer's electricity into the Utility's System under this agreement shall be furnished solely to the individual contracting Customer in a single enterprise, located entirely on a single, contiguous premise. Service hereunder shall be restricted to the Net Capacity of the Customer's Generating Facility which may be operated in parallel with the Utility's System. Service necessary to supply the Customer's total load requirements other than Auxiliary Load, and service necessary to supply the Customer's Auxiliary Load when the Customer's Generating Facility is not operating, shall be billed on the applicable rate schedule(s) of the Utility. Net Power delivered to the Utility shall not offset or be substituted for power contracted for or which may be contracted for under any other schedule of the Utility, except at the option of the Utility under special terms and conditions expressed in writing in the contract with the Customer.

### **Power Factor**

The generating facility will be required to operate at unity Power Factor at the Point of Interconnection. The Company shall have the right to discontinue service if the Customer delivers reactive power that causes the Company to be unable to maintain proper voltage regulation, or creates safety, reliability, or other power quality problems. Suspension of service shall continue until such time as either a) adjustments have been made by the Customer to resolve the issue or b) a new interconnection study is performed and, if required, additional System Upgrades and/or Interconnection Facilities have been installed and charges adjusted accordingly.

### **Interconnection Customer's Control and Protection Devices**

The Customer shall be responsible for providing suitable control and protective devices on its equipment to assure no disturbance to other customers of the Utility or to the Utility itself, and to protect the interconnection Facilities and the Utility's System from all loss or damage which could result from operation in parallel with the Utility's System. The Customer shall be responsible for any costs incurred by the Utility pursuant to the South Carolina Generator Interconnection Procedures.

### **Additional Interconnection Facilities or System Upgrades**

The Utility reserves the right to require additional Interconnection Facilities or System Upgrades, furnished, installed, owned and maintained by the Utility, at the Customer's expense, if the Customer's Generating Facility, despite compliance with the South Carolina Generator Interconnection Procedures, causes safety, reliability, or power quality problems.

### **Inspection**

In order to ensure protection of the Utility's System, the Utility reserves the right, at its discretion, to inspect the Customer's Generating Facility at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Operating Requirements. The Utility reserves the right to disconnect electric service to the premises if the Utility determines that the Customer's Generation Facility and equipment are not in compliance with the South Carolina Generator Interconnection Procedures or Operating Requirements and is being operated in parallel with the Utility's System.

### **Commissioning**

The Utility will use Reasonable Efforts to notify the Customer of any testing requirements including, but not limited to, an anti-islanding test and single-phasing tests to confirm UL 1741 performance by the Generating Facility.

### **Disconnection for Failure to Comply**

The Utility reserves the right to disconnect the Generating Facility if the Utility determines that the Customer's Generating Facility and equipment are not in compliance with the North Carolina Interconnection Procedures or Operating Requirements and is being operated in parallel with the Utility's System.

### **Comprehensive General Liability Insurance**

For an Interconnection Customer that is a residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence. The Customer shall obtain and retain the insurance for as long as the Generating Facility is interconnected with the Utility's system. This insurance shall be primary for all purposes. The Customer shall provide certificates evidencing this coverage as required by the Utility. The Utility reserves the right to refuse to establish or continue the interconnection of the Customer's Generating Facility with the Utility's System if such insurance is not in effect.

### **Inverter Based Systems less than 250 kW<sub>AC</sub>**

For generating facilities in this category, interconnection protection will be owned and Operated by the interconnection customer. Duke energy's minimum requirements for customer Owned interconnection protection in this category is as follows:

1. Inverters have to be tested and listed for compliance with the latest published edition of Underwriter Laboratories INC., UL 1741 for Utility interactive inverters.
2. Interconnection protection equipment shall comply with the latest edition of IEEE 1547 and applicable series standards.
3. Single-phase inverters shall be manufactured after November 7, 2000.
4. Three-phase inverters shall be manufactured after May 7, 2007
5. Voltage and frequency set-points must be same as "default".
6. Customer shall provide a manual load-break rated disconnect switch to serve as a clear visible indication of switch position between the Utility and the Interconnection Customer. The switch must be lockable in the open position, adjacent to the meter and readily accessible to Utility personnel.



**Utility's Description of its Upgrades  
and Best Estimate of Upgrade Costs**

The Utility shall describe Upgrades and provide an itemized best estimate of the cost, including overheads, of the Upgrades and annual operation and maintenance expenses associated with such Upgrades. The Utility shall functionalize Upgrade costs and annual expenses as either transmission or distribution related.

**SYSTEM UPGRADES**

There are no System Upgrades required.

There are no charges for loss due to early retirement of facilities or for the cost of labor to modify energized Utility facilities.